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<110> Rasmussen, Charles
Walczak, Henning

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<160> 6

<170> PatentIn version 3.1

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<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (1)..(1323)

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agg cac ggc cca gga ccc agg gag gcg cgg gga gcc agg cct ggg ccc 96
Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
20 25 30

cgg gtc ccc aag acc ctt gtg ctc gtt gtc gcc gcg gtc ctg ctg ttg 144
Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
35 40 45

gtc tca gct gag tct gct ctg atc acc caa caa gac cta gct ccc cag 192
Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
50 55 60

cag aga gcg gcc cca caa caa aag agg tcc agc ccc tca gag gga ttg 240
 Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu
 65 70 75 80

tgt cca cct gga cac cat atc tca gaa gac ggt aga gat tgc atc tcc 288
 Cys Pro Pro Gly His His Ile Ser Glu Asp Gly Arg Asp Cys Ile Ser
 85 90 95

tgc aaa tat gga cag gac tat agc act cac tgg aat gac ctc ctt ttc 336
 Cys Lys Tyr Gly Gln Asp Tyr Ser Thr His Trp Asn Asp Leu Leu Phe
 100 105 110

tgc ttg cgc tgc acc agg tgt gat tca ggt gaa gtg gag cta agt ccg 384
 Cys Leu Arg Cys Thr Arg Cys Asp Ser Gly Glu Val Glu Leu Ser Pro
 115 120 125

tgc acc acg acc aga aac aca gtg tgt cag tgc gaa gaa ggc acc ttc 432
 Cys Thr Thr Thr Arg Asn Thr Val Cys Gln Cys Glu Glu Gly Thr Phe
 130 135 140

cgg gaa gaa gat tct cct gag atg tgc cgg aag tgc cgc aca ggg tgt 480
 Arg Glu Glu Asp Ser Pro Glu Met Cys Arg Lys Cys Arg Thr Gly Cys
 145 150 155 160

ccc aga ggg atg gtc aag gtc ggt gat tgt aca ccc tgg agt gac atc 528
 Pro Arg Gly Met Val Lys Val Gly Asp Cys Thr Pro Trp Ser Asp Ile
 165 170 175

gaa tgt gtc cac aaa gaa tca ggt aca aag cac agt ggg gaa gcc cca 576
 Glu Cys Val His Lys Glu Ser Gly Thr Lys His Ser Gly Glu Ala Pro
 180 185 190

gct gtg gag gag acg gtg acc tcc agc cca ggg act cct gcc tct ccc 624
 Ala Val Glu Glu Thr Val Thr Ser Ser Pro Gly Thr Pro Ala Ser Pro
 195 200 205

tgt tct ctc tca ggc atc atc ata gga gtc aca gtt gca gcc gta gtc 672
 Cys Ser Leu Ser Gly Ile Ile Ile Gly Val Thr Val Ala Ala Val Val
 210 215 220

ttg att gtg gct gtg ttt gtt tgc aag tct tta ctg tgg aag aaa gtc 720
 Leu Ile Val Ala Val Phe Val Cys Lys Ser Leu Leu Trp Lys Lys Val
 225 230 235 240

ctt cct tac ctg aaa ggc atc tgc tca ggt ggt ggt ggg gac cct gag 768
 Leu Pro Tyr Leu Lys Gly Ile Cys Ser Gly Gly Gly Gly Asp Pro Glu
 245 250 255

cgt gtg gac aga agc tca caa cga cct ggg gct gag gac aat gtc ctc 816
 Arg Val Asp Arg Ser Ser Gln Arg Pro Gly Ala Glu Asp Asn Val Leu
 260 265 270

aat gag atc gtg agt atc ttg cag ccc acc cag gtc cct gag cag gaa 864
 Asn Glu Ile Val Ser Ile Leu Gln Pro Thr Gln Val Pro Glu Gln Glu
 275 280 285

atg gaa gtc cag gag cca gca gag cca aca ggt gtc aac atg ttg tcc 912
 Met Glu Val Gln Glu Pro Ala Glu Pro Thr Gly Val Asn Met Leu Ser
 290 295 300

ccc ggg gag tca gag cat ctg ctg gaa ccg gca gaa gct gaa agg tct 960
 Pro Gly Glu Ser Glu His Leu Leu Glu Pro Ala Glu Ala Glu Arg Ser
 305 310 315 320

cag agg agg agg ctg ctg gtt cca gca aat gaa ggt gat ccc act gag 1008
 Gln Arg Arg Arg Leu Leu Val Pro Ala Asn Glu Gly Asp Pro Thr Glu
 325 330 335

act ctg aga cag tgc ttc gat gac ttt gca gac ttg gtg ccc ttt gac 1056
 Thr Leu Arg Gln Cys Phe Asp Asp Phe Ala Asp Leu Val Pro Phe Asp
 340 345 350

tcc tgg gag ccg ctc atg agg aag ttg ggc ctc atg gac aat gag ata 1104
 Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp Asn Glu Ile
 355 360 365

aag gtg gct aaa gct gag gca gcg ggc cac agg gac acc ttg tac acg 1152
 Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr Leu Tyr Thr
 370 375 380

atg ctg ata aag tgg gtc aac aaa acc ggg cga gat gcc tct gtc cac 1200
 Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala Ser Val His
 385 390 395 400

acc ctg ctg gat gcc ttg gag acg ctg gga gag aga ctt gcc aag cag 1248
 Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu Ala Lys Gln
 405 410 415

aag att gag gac cac ttg ttg agc tct gga aag ttc atg tat cta gaa 1296
 Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met Tyr Leu Glu
 420 425 430

ggt aat gca gac tct gcc atg tcc taa 1323
 Gly Asn Ala Asp Ser Ala Met Ser
 435 440

<210> 2
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 <212> PRT
 <213> Homo sapiens

<400> 2

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Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
 20 25 30

Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
 35 40 45

Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
 50 55 60

Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu
65 70 75 80

Cys Pro Pro Gly His His Ile Ser Glu Asp Gly Arg Asp Cys Ile Ser
85 90 95

Cys Lys Tyr Gly Gln Asp Tyr Ser Thr His Trp Asn Asp Leu Leu Phe
100 105 110

Cys Leu Arg Cys Thr Arg Cys Asp Ser Gly Glu Val Glu Leu Ser Pro
115 120 125

Cys Thr Thr Thr Arg Asn Thr Val Cys Gln Cys Glu Glu Gly Thr Phe
130 135 140

Arg Glu Glu Asp Ser Pro Glu Met Cys Arg Lys Cys Arg Thr Gly Cys
145 150 155 160

Pro Arg Gly Met Val Lys Val Gly Asp Cys Thr Pro Trp Ser Asp Ile
165 170 175

Glu Cys Val His Lys Glu Ser Gly Thr Lys His Ser Gly Glu Ala Pro
180 185 190

Ala Val Glu Glu Thr Val Thr Ser Ser Pro Gly Thr Pro Ala Ser Pro
195 200 205

Cys Ser Leu Ser Gly Ile Ile Ile Gly Val Thr Val Ala Ala Val Val
210 215 220

Leu Ile Val Ala Val Phe Val Cys Lys Ser Leu Leu Trp Lys Lys Val
225 230 235 240

Leu Pro Tyr Leu Lys Gly Ile Cys Ser Gly Gly Gly Gly Asp Pro Glu
245 250 255

Arg Val Asp Arg Ser Ser Gln Arg Pro Gly Ala Glu Asp Asn Val Leu
260 265 270

Asn Glu Ile Val Ser Ile Leu Gln Pro Thr Gln Val Pro Glu Gln Glu
275 280 285

Met Glu Val Gln Glu Pro Ala Glu Pro Thr Gly Val Asn Met Leu Ser
290 295 300

Pro Gly Glu Ser Glu His Leu Leu Glu Pro Ala Glu Ala Glu Arg Ser
305 310 315 320

Gln Arg Arg Arg Leu Leu Val Pro Ala Asn Glu Gly Asp Pro Thr Glu
325 330 335

Thr Leu Arg Gln Cys Phe Asp Asp Phe Ala Asp Leu Val Pro Phe Asp
340 345 350

Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp Asn Glu Ile
355 360 365

Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr Leu Tyr Thr
370 375 380

Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala Ser Val His
385 390 395 400

Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu Ala Lys Gln
405 410 415

Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met Tyr Leu Glu
420 425 430

Gly Asn Ala Asp Ser Ala Met Ser
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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
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<220>
<221> misc_feature
<222> (145)..(145)
<223> "n" = a, t, g, or c

<220>
<221> misc_feature
<222> (149)..(149)
<223> "n" = a, t, g, or c

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 1 5 10 15

ttt gac tcc tgg gag ccg ctc atg agg aag ttg ggc ctc atg gac aat 95
 Phe Asp Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp Asn
 20 25 30

gag ata aag gtg gct aaa gct gag gca gcg ggc cac agg gac acc ttg 143
 Glu Ile Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr Leu
 35 40 45

tnc acn atg ctg at 157
 Xaa Xaa Met Leu
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<210> 4
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 <213> Homo sapiens

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 <222> (48)..(48)
 <223> The 'Xaa' at location 48 stands for Tyr, Cys, Ser, or Phe.

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 <222> (49)..(49)
 <223> The 'Xaa' at location 49 stands for Thr.

<220>
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 <223> "n" = a, t, g, or c

<220>
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 <223> "n" = a, t, g, or c

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 Glu Thr Leu Arg Gln Cys Phe Asp Asp Phe Ala Asp Leu Val Pro Phe
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Asp Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp Asn Glu
 20 25 30

Ile Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr Leu Xaa
 35 40 45

Xaa Met Leu
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 <213> Artificial Sequence

<220>
 <223> FLAG peptide

<400> 5

Asp Tyr Lys Asp Asp Asp Asp Lys
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<210> 6
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 <212> DNA
 <213> Artificial Sequence

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D1
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catttccccg aaaagtgccā cctgacgtct aagaaaccat tattatcatg acattaacct 3120

ataaaaaatag gcgtatcacg aggccctttc gtcttcaag 3159
